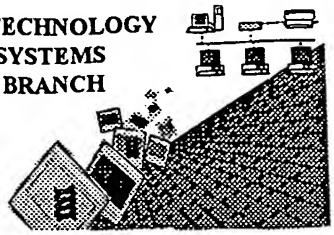
BC #7

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/019,980
Source: PCT/10
Date Processed by STIC: 5/14/2002

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

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Revised 01/29/2002

PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
TIME: 16:23:20

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05142002\J019980.raw

PP 3,5-6

3 <110> APPLICANT: Berthelsen, Jens
4 Toma, Salvatore
5 Isacchi, Antonella
7 <120> TITLE OF INVENTION: Tankyrase Homolog Protein (THP), Nucleic Acids, And Methods Related To
8 The Same
10 <130> FILE REFERENCE: PHRM0373
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/019,980
C--> 12 <141> CURRENT FILING DATE: 2002-04-11
12 <150> PRIOR APPLICATION NUMBER: 09/350,982
13 <151> PRIOR FILING DATE: 1999-07-09
15 <150> PRIOR APPLICATION NUMBER: PCT/EP00/06609
16 <151> PRIOR FILING DATE: 2000-07-03
18 <160> NUMBER OF SEQ ID NOS: 10
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 20
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: PCR Primers
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35 <211> LENGTH: 18
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37 <213> ORGANISM: Artificial Sequence
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46 <210> SEQ ID NO: 3
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48 <212> TYPE: DNA
49 <213> ORGANISM: Homo sapiens
51 <220> FEATURE:
52 <221> NAME/KEY: misc_feature
53 <222> LOCATION: (1124)..(1124)
54 <223> OTHER INFORMATION: N is any nucleic acid
57 <220> FEATURE:
58 <221> NAME/KEY: misc_feature
59 <222> LOCATION: (2672)..(2672)
60 <223> OTHER INFORMATION: N is any nucleic acid
63 <400> SEQUENCE: 3

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
TIME: 16:23:21

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Output Set: N:\CRF3\05142002\J019980.raw

64 gaattccgcg gcggccagga tcatgtcggg tcgccgctgc gccggcgggg gagcggcctg 60
66 cgcgagcgcc gcggccgagg ccgtggagcc ggccgcccga gagctgttcg aggcgtgccg 120
68 caacggggac gtggaacgag tcaagaggct ggtgacgcct gagaaggtga acagccgcga 180
70 cacggcgggc aggaaatcca ccccgctgca cctcgccgca ggttttgggc ggaaagacgt 240
72 agttgaatat ttgcttcaga atggtgcaaa tgtccaagca cgtgatgatg ggggccttat 300
74 tcctcttcat aatgcatgct cttttggtca tgctgaagta gtcaatctcc ttttgcgaca 360
76 tggtgcagac cccaatgctc gagataattg gaattatact cctctccatg aagctgcaat 420
78 taaaggaaag attgatgttt gcattgtgct gttacagcat ggagctgagc caaccatccg 480
80 aaatacagat ggaaggacag cattggattt agcagatcca tctgccaaag cagtgcttac 540
82 tggtgaatat aagaaagatg aactcttaga aagtgccagg agtggcaatg aagaaaaaat 600
84 gatggctcta ctcacaccat taaatgtcaa ctgccacgca agtgatggca gaaagtcaac 660
86 tccattacat ttggcagcag gatataacag agtaaagatt gtacagctgt tactgcaaca 720
88 tggagctgat gtccatgcta aagataaagg tgatctggta ccattacaca atgcctgttc 780
90 ttatggtcat tatgaagtaa ctgaactttt ggtcaagcat ggtgcctgtg taaatgcaat 840
92 ggacttgtgg caattcactc ctcttcatga ggcagcttct aagaacaggg ttgaagtatg 900
94 ttctcttctc ttaagttatg gtgcagaccc aacactgctc aattgtcaca ataaaagtgc 960
96 tatagacttg gctcccacac cacagttaaa agaaagatta gcatatgaat ttaaaggcca 1020
98 ctcgttgctg caagctgcac gagaagctga tgttactcga atcaaaaaac atctctctct 1080
100 **ggaaatggtg aatttcaagc atcctcaaac acatgaaaca gcantgcatt gtgctgctgc** 1140
102 atctccatat cccaaaagaa agcaaatatg tgaactgttg ctaagaaaag gagcaamcat 1200
104 caatgaaaag actaaagaat tcttgactcc tctgcacgtg gcatctgaga aagctcataa 1260
106 tgatrttgtt gaagtagtgg tgaaacatga agcaaaggtt aatgctctgg ataatcttgg 1320
108 tcagacttct ctacacagag ctgcatattg tggtcatcta caaacctgcc gcctactcct 1380
110 gagctatggg tgtgatccta acattatatc ccttcagggc tttactgctt tacagatggg 1440
112 aaatgaaaat gtacagcaac tcctccaaga gggtatctca ttaggtaatt cagaggcaga 1500
114 cagacaattg ctggaagctg caaaggctgg agatgtcgaa actgtaaaaa aactgtgtac 1560
116 tgttcagagt gtcaactgca gagacattga agggcgtcag tctacaccac ttcattttgc 1620
118 agctgggtat aacagagtgt ccgtggtgga atatctgcta cagcatggag ctgatgtgca 1680
120 tgctaaagat aaagrrgscc ttgtaccttt gcacaatgca tgttcttatg gacattatga 1740
122 agttgcagaa cttcttgtta aacatggagc agtagttaat gtagctgatt tatggaaatt 1800
124 tacaccttta catgaagcag cagcaaaagg aaaatatgaa atttgcaaac ttctgctcca 1860
126 gcatggtgca gaccctacaa aaaaaaacag ggatggaaat actcctttgg atcttgttaa 1920
128 agatggagat acagatattc aagatctgct taggggagat gcagctttgc tagatgctgc 1980
130 caagaagagt tgtttagcca gagtgaagaa gttgtcttct cctgataatg taaattgccg 2040
132 cgatacccaa ggcagacatt caacaccttt acatttagca gctggttata ataatttaga 2100
134 agttgcagag tatttgttac aacacggagc tgatgtgaat gcccaagaca aaggaggact 2160
136 tattccttta cataatgcag catcttacgg gcatgtagat gtagcagctc tactaataaa 2220
138 gtataatgca tgtgtcaatg ccacggacaa atgggctttc acacctttgc acgaagcagc 2280
140 ccaaaaggga cgaacacagc tttgtgcttt gktgctagcc catggagctg acccgactct 2340
142 taaaaatcag gaaggacaaa caccttaga tttagtttca gcggatgatg tcagcgctct 2400
144 tctgacagca gccatgcccc catctgctct gccctcttgt tacaagcctc aagtgctcaa 2460
146 tggtgtgaga agcccaggag ccactgcaga tgctctctct tcaggtccat ctagcccatc 2520
148 aagcctttct gcagccagca gtcttgacaa cttatctggg agtttttcag aactgtcttc 2580
150 agtagttagt tcaagtggaa cagagggtgc ttccagtttg gagaaaaagg aggttccagg 2640
152 **agtagatttt agcataactc aattcgtaag gnatcttgga cttgagcacc taatggatat** 2700
154 atttgagaga gaacagatca ctttggatgt attagttgag atggggcaca aggagctgaa 2760
156 ggagattgga atcaatgctt atggacatag gcacaaacta attaaaggag tcgagagact 2820
158 tatctccgga caacaaggtc ttaacccata tttaactttg aacacctctg gtagtggaac 2880
160 aattcttata gatctgtctc ctgatgataa agagtttcag tctgtggagg aagagatgca 2940

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,980

DATE: 05/14/2002
TIME: 16:23:21

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Output Set: N:\CRF3\05142002\J019980.raw

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162 aagtacagtt cgagagcaca gagatggagg tcatgcaggt ggaatcttca acagatacaa   3000
164 tattctcaag attcagaagg tttgtaacaa gaaactatgg gaaagataca ctcaccggag   3060
166 aaaagaagtt tctgaagaaa accacaacca tgccaatgaa cgaatgctat ttcatgggtc   3120
168 tccttttgtg aatgcaatta tccacaaagg ctttgatgaa aggcatgcgt acataggtgg   3180
170 tatgtttgga gctggcattt attttgctga aaactcttcc aaaagcaatc aatatgtata   3240
172 tggaattgga ggaggtactg ggtgtccagt tcacaaagac agatcttgtt acatttgcca   3300
174 caggcagctg ctcttttgcc gggtaacctt gggaaagtct ttcctgcagt tcagtgcaat   3360
176 gaaaatggca cattctcctc caggtcatca ctcagtcact ggtaggccca gtgtaaatgg   3420
178 cctagcatta gctgaatatg ttatttacag aggagaacag gcttatcctg agtatttaat   3480
180 tacttaccag attatgaggc ctgaaggtat ggtcgatgga taaatagtta ttttaagaaa   3540
182 ctaattccac tgaacctaaa atcatcaaag cagcagtggc ctctacgttt tactcctttg   3600
184 ctgaaaaaaa atcatcttgc ccacaggcct gtggcaaaag gataaaaatg tgaacgaagt   3660
186 ttaacattct gacttgataa agctttaata atgtacagtg ttttctaaat atttcctgtt   3720
188 ttttcagcac tttaacagat gccattccag gttaaactgg gttgtctgta ctaaattata   3780
190 aacagagtta acttgaacct tttatatgtt atgcattgat tctaacaaac tgtaatgccc   3840
192 tcaacagaac taattttact aatacaatac tgtgttcttt aaaacacagc atttacactg   3900
194 aatacaattt catttgtaaa actgtaaata agagcttttg tactagccca gtatttattt   3960
196 acattgcttt gtaatataaa tctgttttag aactgcagcg gtttacaaaa ttttttcata   4020
198 tgtattgttc atctatactt gcatcttaca tcgtcatgat tgagtgatct ttacatttga   4080
200 ttccagaggc tatgttcagt tgttagttgg gaaagattga gttatcagat ttaatttgcc   4140
202 gatgggagcc tttatctgtc attagaaatc tttctcattt aagaacttat gaatatgctg   4200
204 aagatttaat ttgtgatacc tttgtatgta tgagacacat tccaaagaac tctaactatg   4260
206 ataggtcctg attactaaag aagcttcttt actggcctca atttctagct ttcatgttgg   4320
208 aaaattttct gcagtccttc tgtgaaaatt agagcaaagt gctcctgttt tttagagaaa   4380
210 ctaaatcttg ctgttgaaca attattgtgt tcttttcatg gaacataagt aggatgttac   4440
212 atttccaggg tgggaagggt aatcctaaat catttcccaa tctattctaa ttaccttaaa   4500
214 tctaaagggg aa                                                      4512
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218 <211> LENGTH: 3498
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: PCR Primers
225 <220> FEATURE:
226 <221> NAME/KEY: CDS
227 <222> LOCATION: (1)..(3498)
228 <223> OTHER INFORMATION:
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (1102)..(1102)
234 <223> OTHER INFORMATION: Xaa is any amino acid
237 <220> FEATURE:
238 <221> NAME/KEY: misc_feature
239 <222> LOCATION: (2650)..(2650)
240 <223> OTHER INFORMATION: Xaa is any amino acid
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <223> OTHER INFORMATION: Xaa is any amino acid
248 <400> SEQUENCE: 4
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Since Sequence 4 is a DNA sequence, "n" must be explained. Xaa's don't have to be explained. "n" is at location 1102 and at location 2650.

RAW SEQUENCE LISTING
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Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05142002\J019980.raw

```
249 atg tcg ggt cgc cgc tgc gcc ggc ggg gga gcg gcc tgc gcg agc gcc       48
250 Met Ser Gly Arg Arg Cys Ala Gly Gly Gly Ala Ala Cys Ala Ser Ala
251 1               5                  10                  15
253 gcg gcc gag gcc gtg gag ccg gcc gcc cga gag ctg ttc gag gcg tgc       96
254 Ala Ala Glu Ala Val Glu Pro Ala Ala Arg Glu Leu Phe Glu Ala Cys
255             20                  25                  30
257 cgc aac ggg gac gtg gaa cga gtc aag agg ctg gtg acg cct gag aag      144
258 Arg Asn Gly Asp Val Glu Arg Val Lys Arg Leu Val Thr Pro Glu Lys
259         35                  40                  45
261 gtg aac agc cgc gac acg gcg ggc agg aaa tcc acc ccg ctg cac ctc      192
262 Val Asn Ser Arg Asp Thr Ala Gly Arg Lys Ser Thr Pro Leu His Leu
263     50                  55                  60
265 gcc gca ggt ttt ggg cgg aaa gac gta gtt gaa tat ttg ctt cag aat      240
266 Ala Ala Gly Phe Gly Arg Lys Asp Val Val Glu Tyr Leu Leu Gln Asn
267 65                  70                  75                  80
269 ggt gca aat gtc caa gca cgt gat gat ggg ggc ctt att cct ctt cat      288
270 Gly Ala Asn Val Gln Ala Arg Asp Asp Gly Gly Leu Ile Pro Leu His
271                 85                  90                  95
273 aat gca tgc tct ttt ggt cat gct gaa gta gtc aat ctc ctt ttg cga      336
274 Asn Ala Cys Ser Phe Gly His Ala Glu Val Val Asn Leu Leu Leu Arg
275             100                 105                 110
277 cat ggt gca gac ccc aat gct cga gat aat tgg aat tat act cct ctc      384
278 His Gly Ala Asp Pro Asn Ala Arg Asp Asn Trp Asn Tyr Thr Pro Leu
279         115                 120                 125
281 cat gaa gct gca att aaa gga aag att gat gtt tgc att gtg ctg tta      432
282 His Glu Ala Ala Ile Lys Gly Lys Ile Asp Val Cys Ile Val Leu Leu
283     130                 135                 140
285 cag cat gga gct gag cca acc atc cga aat aca gat gga agg aca gca      480
286 Gln His Gly Ala Glu Pro Thr Ile Arg Asn Thr Asp Gly Arg Thr Ala
287 145                 150                 155                 160
289 ttg gat tta gca gat cca tct gcc aaa gca gtg ctt act ggt gaa tat      528
290 Leu Asp Leu Ala Asp Pro Ser Ala Lys Ala Val Leu Thr Gly Glu Tyr
291                 165                 170                 175
293 aag aaa gat gaa ctc tta gaa agt gcc agg agt ggc aat gaa gaa aaa      576
294 Lys Lys Asp Glu Leu Leu Glu Ser Ala Arg Ser Gly Asn Glu Glu Lys
295             180                 185                 190
297 atg atg gct cta ctc aca cca tta aat gtc aac tgc cac gca agt gat      624
298 Met Met Ala Leu Leu Thr Pro Leu Asn Val Asn Cys His Ala Ser Asp
299         195                 200                 205
301 ggc aga aag tca act cca tta cat ttg gca gca gga tat aac aga gta      672
302 Gly Arg Lys Ser Thr Pro Leu His Leu Ala Ala Gly Tyr Asn Arg Val
303     210                 215                 220
305 aag att gta cag ctg tta ctg caa cat gga gct gat gtc cat gct aaa      720
306 Lys Ile Val Gln Leu Leu Leu Gln His Gly Ala Asp Val His Ala Lys
307 225                 230                 235                 240
309 gat aaa ggt gat ctg gta cca tta cac aat gcc tgt tct tat ggt cat      768
310 Asp Lys Gly Asp Leu Val Pro Leu His Asn Ala Cys Ser Tyr Gly His
311                 245                 250                 255
313 tat gaa gta act gaa ctt ttg gtc aag cat ggt gcc tgt gta aat gca      816
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RAW SEQUENCE LISTING
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Output Set: N:\CRF3\05142002\J019980.raw

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315             260                 265                 270
317 atg gac ttg tgg caa ttc act cct ctt cat gag gca gct tct aag aac      864
318 Met Asp Leu Trp Gln Phe Thr Pro Leu His Glu Ala Ala Ser Lys Asn
319         275                 280                 285
321 agg gtt gaa gta tgt tct ctt ctc tta agt tat ggt gca gac cca aca      912
322 Arg Val Glu Val Cys Ser Leu Leu Leu Ser Tyr Gly Ala Asp Pro Thr
323     290                 295                 300
325 ctg ctc aat tgt cac aat aaa agt gct ata gac ttg gct ccc aca cca      960
326 Leu Leu Asn Cys His Asn Lys Ser Ala Ile Asp Leu Ala Pro Thr Pro
327 305                 310                 315                 320
329 cag tta aaa gaa aga tta gca tat gaa ttt aaa ggc cac tcg ttg ctg     1008
330 Gln Leu Lys Glu Arg Leu Ala Tyr Glu Phe Lys Gly His Ser Leu Leu
331                 325                 330                 335
333 caa gct gca cga gaa gct gat gtt act cga atc aaa aaa cat ctc tct     1056
334 Gln Ala Ala Arg Glu Ala Asp Val Thr Arg Ile Lys Lys His Leu Ser
335             340                 345                 350
W--> 337 ctg gaa atg gtg aat ttc aag cat cct caa aca cat gaa aca gca ntg     1104
W--> 338 Leu Glu Met Val Asn Phe Lys His Pro Gln Thr His Glu Thr Ala Xaa
339         355                 360                 365
341 cat tgt gct gct gca tct cca tat ccc aaa aga aag caa ata tgt gaa     1152
342 His Cys Ala Ala Ala Ser Pro Tyr Pro Lys Arg Lys Gln Ile Cys Glu
343     370                 375                 380
345 ctg ttg cta aga aaa gga gca amc atc aat gaa aag act aaa gaa ttc     1200
W--> 346 Leu Leu Leu Arg Lys Gly Ala Xaa Ile Asn Glu Lys Thr Lys Glu Phe
347 385                 390                 395                 400
349 ttg act cct ctg cac gtg gca tct gag aaa gct cat aat gat rtt gtt     1248
W--> 350 Leu Thr Pro Leu His Val Ala Ser Glu Lys Ala His Asn Asp Xaa Val
351                 405                 410                 415
353 gaa gta gtg gtg aaa cat gaa gca aag gtt aat gct ctg gat aat ctt     1296
354 Glu Val Val Val Lys His Glu Ala Lys Val Asn Ala Leu Asp Asn Leu
355             420                 425                 430
357 ggt cag act tct cta cac aga gct gca tat tgt ggt cat cta caa acc     1344
358 Gly Gln Thr Ser Leu His Arg Ala Ala Tyr Cys Gly His Leu Gln Thr
359         435                 440                 445
361 tgc cgc cta ctc ctg agc tat ggg tgt gat cct aac att ata tcc ctt     1392
362 Cys Arg Leu Leu Leu Ser Tyr Gly Cys Asp Pro Asn Ile Ile Ser Leu
363     450                 455                 460
365 cag ggc ttt act gct tta cag atg gga aat gaa aat gta cag caa ctc     1440
366 Gln Gly Phe Thr Ala Leu Gln Met Gly Asn Glu Asn Val Gln Gln Leu
367 465                 470                 475                 480
369 ctc caa gag ggt atc tca tta ggt aat tca gag gca gac aga caa ttg     1488
370 Leu Gln Glu Gly Ile Ser Leu Gly Asn Ser Glu Ala Asp Arg Gln Leu
371                 485                 490                 495
373 ctg gaa gct gca aag gct gga gat gtc gaa act gta aaa aaa ctg tgt     1536
374 Leu Glu Ala Ala Lys Ala Gly Asp Val Glu Thr Val Lys Lys Leu Cys
375             500                 505                 510
377 act gtt cag agt gtc aac tgc aga gac att gaa ggg cgt cag tct aca     1584
378 Thr Val Gln Ser Val Asn Cys Arg Asp Ile Glu Gly Arg Gln Ser Thr
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/14/2002
PATENT APPLICATION: US/10/019,980 TIME: 16:23:22

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05142002\J019980.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1124,2672
Seq#:4; N Pos. 1102,2650
Seq#:4; Xaa Pos. 368,392,415,558,559,764,884
Seq#:5; Xaa Pos. 368,392,415,558,559,764,884